1-6450860-0 ✔ ACTIVE

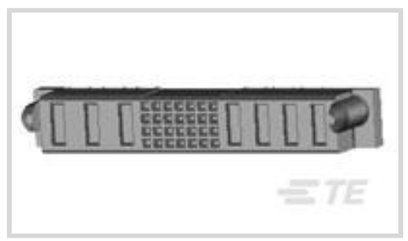
MULTI-BEAM | MULTI-BEAM XLE

TE Internal #: 1-6450860-0

PCB Mount Receptacle, Vertical, Board-to-Board, 35 Position, 2.54 mm / 6.35 mm / 7.62 mm [.1 in / .25 in / .3 in] Centerline, MULTI-BEAM XLE

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

Connector System: **Board-to-Board**

Number of Positions: **35**

Number of Rows: **4**

Centerline (Pitch): **2.54 mm, 6.35 mm, 7.62 mm [.1 in, .25 in, .3 in]**

Features

Product Type Features

Mixed & Hybrid Header	Yes
Connector Shape	Rectangular
PCB Connector Type	PCB Mount Receptacle
Connector System	Board-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Number of Columns	14
Number of Loaded Positions	27
Mating & Unmating Configuration	Normal
Number of Positions	35
Number of Rows	4
PCB Mount Orientation	Vertical
Number of Power Positions	7
Number of Signal Positions	28

Electrical Characteristics

Operating Voltage	60 VDC, 200 VDC, 300 VDC

Body Features

Primary Product Color	Black

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 – 2.54 µm[50 – 100 µin]
PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 µm[100 – 200 µin]
Contact Layout	Matrix
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Receptacle
Contact Current Rating (Max)	42 A
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.076 µm[3 µin]

Termination Features

Termination Post & Tail Length	3.43 mm[.135 in]
Termination Method to PCB	Through Hole - Press-Fit

Mechanical Attachment

Mating Retention	Without
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	Without

Housing Features

Centerline (Pitch)	2.54 mm, 6.35 mm, 7.62 mm[.1 in][.25 in][.3 in]
Housing Material	High Temperature Thermoplastic Glass-Filled

Dimensions

Connector Width	11.94 mm[.47 in]
Connector Height	12.7 mm[.5 in]
Connector Length	75.95 mm[2.99 in]

Row-to-Row Spacing	2.54 mm[.1 in]
PCB Thickness (Recommended)	1.35 mm[.053 in]

Usage Conditions

Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]

Operation/Application

Circuit Application	Power & Signal

Industry Standards

Glow Wire Rating	High Temperature Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	33
Packaging Method	Tray

Other

Position Locations Omitted	Column 6, 7
Number of Blocked Positions	8

Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as

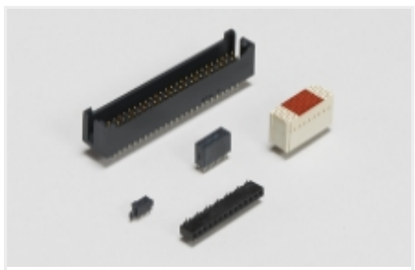
EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

Compatible Parts

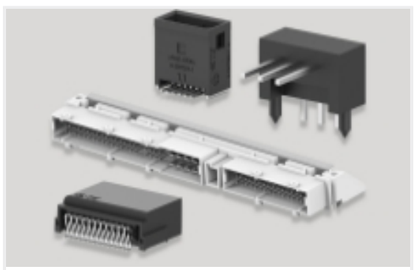


TE Part # 1-6450830-9
MBXL R/A HDR 4P + 28S + 3ACP

Also in the Series | MULTI-BEAM XLE



Board-to-Board Headers & Receptacles(97)



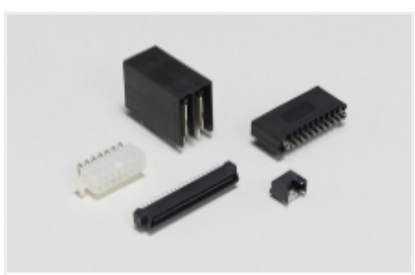
PCB Headers & Receptacles(97)



Rectangular Connector Housings(12)

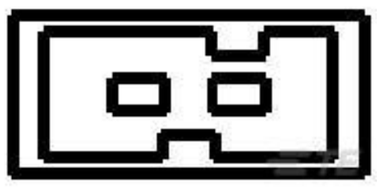


Rectangular Power Connectors(106)



Standard Rectangular Connectors(12)

Customers Also Bought



TE Part #2-1903328-2
DYNAMIC 4200S HDR ASSY H 2P Y



TE Part #1934222-1
Tin Man Recpt Assy 4Pair8Column

Documents

Product Drawings

MBXLE VERT RCPT 4P+28S+3ACP

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-6450860-0_D4.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-6450860-0_D4.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-6450860-0_D4.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Product Specifications

Application Specification

English

Agency Approvals

UL Report

English